

Feed and raw material CV

Skretting (owned by Nutreco), is a global leader in the production of feed for farmed fish and shrimp. We take great pride in creating products that allow our customers to produce the healthiest and best quality fish and shrimp.

Skretting Norway has three production factories:

- Stokmarknes: NO10050269
- Averøy: NO10050270
- Stavanger: NO10050187

Fish feed from Skretting Norway meets the highest international standards and is produced in accordance with:

- Norwegian food legislation of 19 December 2003, number 124
- Norwegian Ministry of Fisheries and Agriculture legislation of 7 November 2002, number 1290.

Nutrace is Skretting's unique, global feed-to-food quality and safety system. It ensures consistency throughout the production process, from raw materials to final feed solutions. Nutrace is built on five strong pillars:

- Certified Quality & Food Safety
- Ingredient and Supplier Assessment & Management
- Monitoring & Control
- Risk Management
- Tracking and Tracing

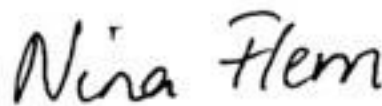
Nutrace ensures that our customers and end consumers can have full confidence regarding feeds in the farmed fish value chain. Skretting combines the latest technology and science with the dedication of our staff to produce the highest quality feed. We do our utmost to ensure that our business operations adhere to our own strict environmental guidelines. We invite you to visit us and audit our quality systems to assure yourself that you are buying the best quality feed from the leading fish feed producer.

View our annual sustainability report and our environmental footprint report on our website for more information <https://www.skretting.com/no/baerekraft/baerekraftsrapport/>

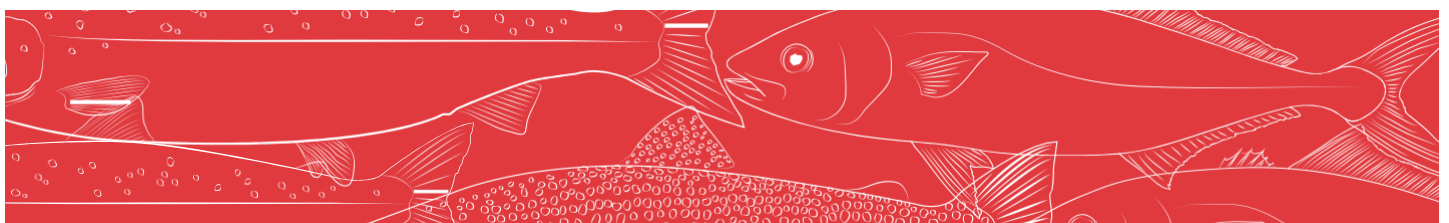
Sincerely,



Mads Martinsen
Director Product Development and Sustainability
Skretting Norway



Nina Flem
Quality Affairs Director Skretting Global



Certified Quality & Food Safety

The Certified Quality & Food Safety pillar guarantees the consistent formulation and production of high quality, reliable feeds. Skretting Norway has implemented several international certifications, systems, and internal procedures. Third-party independent bodies and parent company Nutreco check and audit these standards on a regular basis. Customers are welcome to review our system.

Skretting Norway has implemented HACCP, is ASC compliant and is certified according to the following standards:

- ISO 9001:2015
- BAP
- GLOBALG.A.P including GlobalG.A.P NON-GM.: GLOBAL G.A.P number is 4050373823641 and 4052852471015 (Starter feed)
- Debio (Organic)

Raw material certification

- Skretting has a commitment to stop the conversion of natural forests to agriculture, plantation forestry, livestock production, or other land uses. Soy originating from South America and Europe is deforestation free and this is verified through buying soy that is certified by standards that endorse this principle. Skretting follow the ProTerra standard for South America and Europe Soy standard for Europe.

To read more about ProTerra: <http://www.proterrafoundation.org/>.

To read more about Europe Soy standard: https://www.donausoja.org/wp-content/uploads/2022/12/Europe_Soya_Guidelines.pdf

All our three Brazilian soy producers, CJ Selecta, Caramuru and Imcopa, has implemented a 100 percent deforestation and conversion free soybean value chain with August 2020 as their cut-off date. No soy grown on land deforested after this deadline will be traded. This commitment extends their deforestation-free commitment to their entire soybean business, also outside Skretting's value chain. To read more about this commitment:

<https://www.proterrafoundation.org/news/soy-vendors-to-the-salmon-industry-end-trade-of-deforestation-linked-soy-in-brazil/>

Link to applicable global sourcing policy [201203-soy-and-oil-palm-ingredients-sourcing-policy.pdf \(nutreco.com\)](https://www.nutreco.com/201203-soy-and-oil-palm-ingredients-sourcing-policy.pdf)

- Marine ingredients from whole fish purchased by Skretting Norway are MarinTrust or Marine Stewardship Council (MSC) certified, or subject to a Fishery Improvement Project (FIP)
- Skretting Norway feed is non-GMO. Our vegetable-based ingredients are purchased as non-GMO and supplier certifications are documented.

Ingredient & Supplier Assessment and Management

The Ingredient and Supplier Assessment & Management pillar ensures only healthy, safe, and sustainable raw materials are used to produce fish feed. It includes common standards for all Skretting businesses for assessing and managing ingredients and suppliers. All the information related to feed ingredients and major suppliers of Skretting Norway is stored in global databases, which are shared throughout the Nutreco organisation. Only approved feed ingredients and suppliers are used by Skretting Norway. Any new supplier must be evaluated and approved before being considered a Skretting Norway supplier.



Skretting AS certifications:
NS-EN ISO 9001:2015
NS-EN ISO 14001:2015
NS-EN ISO 22000:2005
GlobalGAP CFM



Composition of Aquaculture Feeds

The following list gives the ingredients available for use by Skretting Norway for the manufacture of aquaculture feeds:

Feed for salmonids	Feed for marine species
Algal oil / meal	Algal oil / meal
Astaxanthin and organic pigments (no use of synthetic cantaxanthin)	Astaxanthin and organic pigments (no use of synthetic cantaxanthin)
Calanus hydrolysate	Brown crab meal
Camelina oil	Calanus hydrolysate
Faba beans	Faba beans
Fishmeal	Fishmeal
Fish oil	Fish oil
Fish protein concentrate	Fish protein concentrate
Guar meal	Guar meal
Insect meal	Krill meal
Krill meal	Pea protein concentrate
Linseed oil	Pea starch
Pea protein concentrate	Phytase
Pea starch	Rapeseed oil
Phytase	Shrimp meal
Rapeseed oil	Soy protein concentrate
Soy protein concentrate	Sunflower meal
Sunflower meal	Tapioca starch
Tapioca starch	Vitamins and minerals
Vitamins and minerals	Wheat
Wheat	Wheat gluten
Wheat gluten	

Please use the customer portal, or contact us, to retrieve product specific datasheets for the diets you use.



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Ethoxyquin

Skretting Norway does not add, and has never added, ethoxyquin to fish feed. Previously, ethoxyquin detected in our feeds originated from fishmeal. Skretting is sourcing raw materials without ethoxyquin. Antioxidants are routinely monitored via our Nutrace programme.

For more information about ethoxyquin, please contact us.

Marine ingredients

- Skretting Norway registers the species and origin information of all marine ingredients purchased. The fishmeal used in our aquaculture feed is not derived from any of the same species of farmed origin, that we supply feed to.

Our supplies of fishmeal and fish oil are governed by Nutreco Code of Conduct for Business Partners. We subscribe to, and promote, the fishery management principles of the FAO Code of Conduct for Responsible Fisheries. Nutreco expects its suppliers to work towards complying with the principles specified in that code. The CoC supplement for suppliers of marine ingredients is valid for all marine materials used in Nutreco products. This includes fishmeal and fish oil processed from fish and crustaceans caught for the primary production of marine ingredients, by-products from fishery processing and by-products from aquaculture. Fishery materials shall not be from IUU activities and suppliers shall not process species or by-products that are classified in the IUCN Red List.

To read our Code of Conduct: [Code of Conduct for business partners - Nutreco Corporate](#)

To read our Marine Ingredients Responsible Sourcing Policy: <https://www.skretting.com/siteassets/20220303-skretting-marine-sourcing-policy-final.pdf>

Vegetable ingredients

Our supplies of vegetable ingredients are also governed by Nutreco Code of Conduct for Business Partners. We believe all agricultural products should be produced in a responsible way. To that end, we work with recognized organizations and platforms such as the Consumer Goods Forum and others, to address outstanding issues such as deforestation in a pragmatic and effective way.

Land-animal ingredients

Skretting Norway's fish feeds do not include animal products or by-products of mammalian or avian origin. However, according to Norwegian legislation of 19 November 2013, protein raw materials of mammalian and avian origin (i.e. Processed Animal Proteins) are approved for use in feed for fish.

Skretting Norway are not using blood meal, other blood products, hydrolyzed proteins, or calcium phosphates from swine (porcine) as protein source in our fish feeds. Skretting Norway is not using porcine fat or alcohol (i.e. ethanol) in our fish feeds. Skretting Norway will only change this status in use of porcine products in agreement with our customers and we will inform Norwegian Feed and Food Safety Authority (Mattilsynet) in due time.

Novel ingredients

The concept of novel food is guiding the development of new rules and standards in the EU. A definition of novel foods and novel food ingredients by the European Commission:

Foods and food ingredients that have not been used for human consumption to a significant degree in the EU before 15 May 1997 to be "novel foods" and "novel food ingredients".

Insects are included in the new EU Novel Food Regulation (Regulation (EC) No 2015/2283), that entered into force on 1 January 2018. The use of insect-derived protein in aquaculture feed is also permitted from 1 July 2017 as established in Regulation (EU) 2017/893 amending Regulation (EC) No 999/20



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Monitoring & Control,

The Monitoring & Control pillar ensures Skretting Norway feeds are safe. Skretting Norway has followed a harmonised, detailed, and comprehensive global monitoring program for many years, which covers undesirable substances from raw materials to finished feeds. Raw materials are monitored according to a targeted list of undesirable substances and each ingredient follows an approved analytical procedure. Only approved laboratories conduct the analyses. All analytical data is stored in Skretting's global Laboratory Information Management System and is shared among the Skretting companies. The Monitoring & Control pillar also includes a standardised internal rapid alert and follow-up system as well as an external notification procedure. The results from our monitoring program documents that feed from Skretting Norway are far below any maximum limits of undesirable substances.

Heavy metals, dioxin, and other undesirable substances

Skretting Norway conducts regular testing of our feeds for undesirable substances to ensure the levels are within the European maximum residue limits.

In particular, Directive 2002/32/EC on undesirable substances in animal feed regarding dioxins and dioxin-like PCB's with a maximum limit of 1.75 ng WHO-PCDD/F-TEQ/kg (dioxins) and 5.5 ng WHO-PCDD/F-PCB-TEQ/kg (sum of dioxins and dioxin-like PCBs).

Toxins

Skretting Norway has an analysis program for aflatoxins and other mycotoxins (DON, Zearalenone, Ochratoxin A, Fumonisin, HT-2 and T-2)

Pesticides

Skretting Norway has an analysis program for pesticides.

Antibiotics and hormones in aquaculture feeds

Skretting Norway confirms that our aquaculture feeds do not contain antibiotics (unless specifically prescribed by a registered veterinarian for treating sick fish) or hormones.

Risk Management

The Risk Management pillar ensures professional crisis handling, should an emergency arise. It covers Food Safety and Crisis Management for correct decisions to be taken to minimize risks and for unwanted situations to be handled in a correct manner. It also includes media management and a product recall procedure. Regular training and tests are undertaken by Skretting Norway to ensure we are well prepared to handle a crisis in an effective and appropriate manner.

Tracking & Tracing

Tracking & Tracing ensures an efficient information flow between Skretting Norway, its suppliers, fish farmers and fish buyers. Skretting Norway has an electronic system in place that precisely traces feed batches back to their raw materials. It provides accurate and accessible records of all ingredients, production processes and feed deliveries. This system delivers rapid upstream and downstream information, which is essential for efficient information gathering and in the event of an incident, recall program. The Tracking & Tracing system ensures legal requirements are in place.



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